

Title (en)  
Process for preparing self-supporting bodies and products made thereby.

Title (de)  
Verfahren zur Herstellung selbsttragender Körper und so hergestellte Produkte.

Title (fr)  
Procédé pour fabriquer des pièces autoportantes et produits ainsi obtenus.

Publication  
**EP 0378502 B1 19931201 (EN)**

Application  
**EP 90630012 A 19900111**

Priority  
US 29677489 A 19890113

Abstract (en)  
[origin: EP0378502A1] Self-supporting bodies are produced by reactive infiltration of a parent metal (10) into a boron nitride material (12) typically resulting in a body comprising a boron-containing compound, a nitrogen-containing compound and metal. The mass to be infiltrated may contain one or more inert fillers admixed with the boron nitride (12), to produce a composite by reactive infiltration, which composite comprises a matrix which embeds the filler material. The matrix, in a composite body containing filler material, comprises one or more of metal, a boron-containing compound and a nitrogen-containing compound. The relative amounts of reactants and process conditions may be altered or controlled to yield a body containing varying volume percents of ceramic, metal and/or porosity. The mass to be infiltrated can be contained within a refractory vessel having a venting means included therein.

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IPC 8 full level  
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